| POSITION                  | INITIALS | ID NO.  | DATE     |  |  |  |  |  |
|---------------------------|----------|---------|----------|--|--|--|--|--|
|                           | E17      |         | 10-17-01 |  |  |  |  |  |
| FEE DETERMINATION         | 6        |         |          |  |  |  |  |  |
| O.I.P.E. CLASSIFIER       | 19       | 13      | 10/21/01 |  |  |  |  |  |
| FORMALITY REVIEW          | TB       | JC 1108 | 11.14.01 |  |  |  |  |  |
| RESPONSE FORMALITY REVIEW |          |         |          |  |  |  |  |  |

## **INDEX OF CLAIMS**

| ~ | Rejected                   | N   | Non-elected  |
|---|----------------------------|-----|--------------|
| = | Allowed                    | - 1 | Interference |
| _ | (Through numeral) Canceled | Α   | Appeal       |
| ÷ | Restricted                 | 0   | Objected     |

BEST AVAILABLE COPY

| CI       | aim      |               |               |               |           |          |          |          | C        | Claim Date |          |            |              |    |  |              | ٦             | Cla             | im       | Date |          |                 |          |              |               |                    |                |          |          |          |            |          |           |   |
|----------|----------|---------------|---------------|---------------|-----------|----------|----------|----------|----------|------------|----------|------------|--------------|----|--|--------------|---------------|-----------------|----------|------|----------|-----------------|----------|--------------|---------------|--------------------|----------------|----------|----------|----------|------------|----------|-----------|---|
|          | T_1      | 20,           | 8             | Š             |           |          |          |          |          |            |          |            | T            | 1  | T  |              |               |                 |          |      |          |                 | 7        |              |               |                    |                |          |          |          |            |          |           | _ |
| _        | E I      | /             | Ş             | -             |           |          |          |          |          |            |          | -          | .   <u>.</u> |    |  |              |               |                 |          |      |          |                 | 1.       | _            | ina           |                    |                |          |          |          |            |          |           | ı |
| Final    | priginal | 100           | 6/16/103      | 2/11/04       |           |          |          | l        |          |            |          | ü          | Original     | '  |  | 1            |               |                 |          |      |          |                 |          | Final        | Original      | 1 1                |                |          |          |          |            |          |           | ı |
| ۳        | 1        | ) ,           | 7             | v             |           | $\dashv$ | Н        | -        |          |            | -        | <u> </u>   | 5            |    |  | $\vdash$     |               | -               |          |      | $\dashv$ | $\vdash$        | ┨        | т.           | 101           | +                  | $\vdash$       |          | -        | $\dashv$ | $\dashv$   |          | $\dashv$  | _ |
| -        | 2        | J             | V             | 긼             | -         |          | $\vdash$ | ⊢        |          | _          |          | ⊢          | 52           |    | -  | -            |               | -               | -        |      |          | -               | ┨        | -            | $\rightarrow$ | +                  | $\vdash$       | _        |          | -        |            | _        | $\dashv$  | _ |
| -        | 3        | $\rightarrow$ | $\overline{}$ | $\rightarrow$ | -         | _        |          | $\vdash$ |          | _          | Н        | -          | 53           | -  |  | <u> </u>     |               | -               | -        | _    | -        |                 | ┨        | $\vdash$     | 102           | +                  | Н              | _        |          | $\dashv$ |            | _        |           | _ |
| L        |          | 4             | $\overline{}$ | V             |           | _        | Ш        | <u> </u> | _        |            |          |            |              |    | _  | <u> </u>     |               | Щ               |          |      | _        | $\perp$         | 4        | _            | 103           |                    |                |          |          |          |            | _        |           |   |
|          | 4        | 7             | 4             | V             | _         |          | _        | _        | L        | _          | _        | ·  _       | 54           |    | L.   | _            |               |                 | _        |      | _        | $\perp$         | 4        | ļ            | 104           | 4                  |                |          |          |          | _          | _        | _         |   |
| $\perp$  | 5        | 0             | =             | =             | _         | _        |          | <u> </u> | L        |            |          | ⊢          | 5            | -  | ļ_   | $\vdash$     | _             |                 |          |      |          | $\perp$         | 4        |              | 105           | $\perp$            |                |          |          | _        |            | _        | _         |   |
|          | 6        | 0             | Ξ             | =             | _         |          |          | _        | Ш        |            |          | L          | 5€           | -  | L.   |              |               |                 |          |      |          |                 | _        |              | 106           |                    |                |          |          |          |            |          |           |   |
|          | 7        | 0             | =             | =             |           |          |          | L        |          |            |          | L          | 57           |    | _  |              |               |                 |          |      |          |                 | ┙        |              | 107           |                    |                |          | į        |          |            |          |           |   |
|          |          | y             |               |               |           |          |          |          |          |            |          | L          | 58           |    |  | L            |               |                 |          |      |          |                 | ╝        |              | 108           |                    |                |          |          |          |            |          |           |   |
| ·        | 4        | 7             |               |               |           |          |          |          |          |            |          |            | 59           |    |  |              |               |                 |          |      |          |                 | ٦        |              | 109           |                    |                |          |          |          |            |          |           | Т |
|          | 10       |               |               |               |           |          |          |          |          |            |          | Г          | 60           | 1  |  |              |               |                 |          |      |          |                 | 7        |              | 110           |                    |                |          |          |          |            | $\neg$   | $\exists$ | _ |
| Г        | 1/1      | П             |               |               |           |          |          |          |          |            |          |            | 6            |    |  |              |               |                 |          |      |          |                 | 1        | $\Gamma$     | 111           |                    |                |          |          | ヿ        |            | _        | $\neg$    | _ |
|          | 12       | М             |               |               | 7         |          |          |          | Т        | _          | М        |            | 62           |    |  |              |               |                 |          |      |          | _               | ٦        |              | 112           | П                  |                |          | $\neg$   | $\neg$   | $\dashv$   | $\dashv$ | 1         | _ |
|          | 13       | Ш             |               | $\neg$        | 1         |          | П        |          |          |            | П        | <b> </b>   | 6            |    |  | Г            |               | П               |          |      |          | $\vdash$        | 7        |              | 113           | П                  | H              |          |          | -        | -          | $\dashv$ | +         | _ |
| $\vdash$ | 114      | H             | H             | $\neg$        | _         | T        | H        | $\vdash$ | Т        |            | H        | -          | 64           |    | <del>                                     </del> | <u> </u>     | H             | H               |          |      |          | $\dashv$        | 1        | -            | 114           | Н                  | Н              |          | $\neg$   | 一        |            | $\dashv$ | $\dashv$  | _ |
| $\vdash$ | 14<br>15 | Н             | $\vdash$      | ᅱ             | $\dashv$  | $\neg$   | H        | $\vdash$ | H        | H          | Н        |            | 65           |    | <del> </del>                                     | <del> </del> | <b></b>       | $\vdash$        |          | -    | $\dashv$ | $\vdash$        | 1        | $\vdash$     | 115           | $\vdash$           | ١.             | $\vdash$ | $\vdash$ | $\dashv$ | -          |          | -         | _ |
| -        | , is     | HH            | -             |               | -         |          | $\vdash$ | -        | -        | -          | -        | <br> -     | 66           | _  | ╁  | $\vdash$     | $\vdash$      | H               | $\dashv$ | -    |          |                 | -        | $\vdash$     | 116           | $\vdash$           | М              | -        |          | -        | $\dashv$   | $\dashv$ | $\dashv$  | _ |
| $\vdash$ | 1        | Н             | Н             | $\dashv$      | $\dashv$  | -        | Н        | ⊢        | $\vdash$ | -          | Н        | <br>       | 67           |    | <del> </del>                                     | $\vdash$     | H             | Н               | $\dashv$ |      | $\dashv$ | -               | $\dashv$ | -            | 117           | Н                  | $\vdash$       | $\vdash$ | -        |          |            |          | $\dashv$  | _ |
| -        | 76       | t             | $\vdash$      | $\dashv$      | $\dashv$  | _        | $\vdash$ | $\vdash$ |          | H          | Н        | $\vdash$   | 68           | -  | +-   | <del> </del> | <del>  </del> | $\vdash \vdash$ |          |      | $\dashv$ | $\vdash$        | -        | $\vdash$     |               | ╂╾┥                | $\vdash$       | ш        | $\dashv$ | $\dashv$ |            | $\dashv$ | -         |   |
| -        |          | -             |               |               |           |          | -        |          |          | _          | _        | ⊢          | _            | -  | ┢  | ⊢            |               |                 |          |      |          | $\vdash$        | 4        | -            | 118           | +                  |                | -        |          | $\dashv$ |            | $\dashv$ | _         |   |
| <u> </u> | (19)     | -             |               | ~             | _         |          | Ш        | _        |          |            |          | ļ          | 69           |    | <u> </u>   | _            |               | Щ               |          |      | _        |                 | 4        |              | 119           | Ш                  |                |          |          | _        | _          | _        | _         |   |
| L        | 20       | V             | く             | 5             |           |          | <i></i>  |          |          |            |          |            | 70           |    |  |              |               |                 |          |      |          |                 | ╛        |              | 120           |                    |                |          |          |          |            |          |           |   |
|          | 21       | 8             | <             | ٧             |           |          |          |          |          |            |          |            | 7            |    | I  |              |               |                 |          |      |          |                 |          |              | 121           |                    |                |          |          |          |            | П        |           |   |
| Г        | 22       | V             | 2             | <             | T         |          |          |          |          |            |          | Г          | 72           |    |  | Г            |               |                 |          |      |          |                 | 7        |              | 122           |                    |                |          |          | 司        |            |          |           |   |
| Г        | 23       | V             | ~             | ~             | ·         |          |          | Г        |          |            |          |            | 7:           | 1  |  | Г            |               |                 |          |      |          |                 | 7        |              | 123           |                    |                |          |          | $\neg$   | $\neg$     | $\neg$   |           | _ |
| Г        | 24       | V             | V             | 1             |           |          |          |          |          |            |          |            | 74           | i  | _  | _            | -             |                 |          |      |          |                 | 7        |              | 124           |                    |                |          |          | $\neg$   |            | $\neg$   | $\neg$    | - |
| -7       | B        | N             | М             |               |           |          |          |          |          | -          |          |            | 7:           | ;  | _  | _            |               |                 |          | _    |          | $\Box$          | 7        |              | 125           |                    |                |          |          | ┪        | 7          | 7        | -         | _ |
| ·F       | 156      | Z             |               |               |           |          |          |          | Ė        | _          | Н        |            | 76           | 1  | $\vdash$   | _            | _             | _               |          |      |          |                 | ┪        | -            | 126           |                    |                |          | $\Box$   | $\dashv$ | $\dashv$   | 7        | ┪         |   |
| ۳        | Ø        | Ż             | V             | ~             |           |          |          | -        | -        | $\vdash$   | Н        | ⊢          | 77           | _  |  | $\vdash$     |               | $\neg$          |          | _    |          | -               | ٦.       | -            | 127           |                    | $\vdash$       |          | -        | -        | -          | ┪        | -         |   |
| ╚        | 28       | Š             | >             | V             |           |          |          | Η.       | $\vdash$ | ⊢          | Н        |            | 78           |    |  |              |               | -               |          |      | $\dashv$ | -               | ┨        | -            | 128           | +                  | Н              |          | -        | $\dashv$ | -          |          | -         |   |
| $\vdash$ | 29       | Š             | Š             | Š             | -         |          | -        | $\vdash$ | $\vdash$ | $\vdash$   | H        | <u> </u>   | 75           |    |  | -            |               | -               |          |      | -        | $\vdash$        | ┨.       | <del> </del> | 129           | +                  | $\vdash$       |          | $\dashv$ | $\dashv$ | $\dashv$   | $\dashv$ | -         |   |
| -        | 30       | \ <u>\</u>    | ₹             | v             | $\dashv$  | _        | -        | _        | ┢        | ⊢          | H        | ⊢          | 80           |    | -  | ├            | -             | -               |          |      |          | $\vdash$        | ┨        | -            | 130           | ╁╌╢                | -1             |          | $\dashv$ | $\dashv$ | $\dashv$   | $\dashv$ | $\dashv$  |   |
| $\vdash$ | 31       | ٧             | 7             | ~             | $\vdash$  |          |          | <u> </u> | ├        | -          | <u> </u> | <b> </b> - |              |    |  | ⊢            |               | $\dashv$        |          | _    | -        | -               | 4        |              | -             | $\vdash$           | Ш              |          |          |          |            |          |           |   |
| -        | -        | _             |               | Ÿ             | _         | _        | Н        | <u> </u> | $\vdash$ | ⊢          | Н        | <u> </u> - | 8            | _  | ⊢  | $\vdash$     | H             |                 |          |      | $\dashv$ | $\vdash$        | 4        | <b> </b>     | 131           | $\vdash$           | Ш              |          | $\dashv$ | 4        |            |          |           |   |
| $\vdash$ | 32       | <b>\</b>      | Ž             |               |           |          | <u> </u> | <b> </b> |          |            | Щ        | <u> </u> - | 82           |    | <del> </del>                                     | <u> </u>     | <b> </b>      |                 | _        |      |          | $\vdash$        | 4        | <u> </u>     | 132           | 1-1                | Ш              | Щ        | _        | _        | _          | _        | _         |   |
| $\vdash$ | <u> </u> | V             | 0             | 11            | $\square$ |          | Щ        | <u> </u> | ┞        | <u> </u>   | <u> </u> | <u> </u>   | 83           | _  | <u> </u>   | <u> </u>     | L.            |                 |          |      | _        | $\vdash \vdash$ | 4        | <u>_</u>     | 133           | $\perp$            |                |          |          | _        | _          | _        | _         | _ |
| <b></b>  | 34       | V             | 7             | V             |           |          | Ш        | _        | <u> </u> | L          | L.,      | <u> </u>   | 84           |    |  | <u> </u>     | Ш             |                 | Щ        |      |          | $\sqcup \bot$   | 4        | $\vdash$     | 134           | Ш                  | Ш              |          | _        |          |            | _        | _         |   |
| $\vdash$ | 35       | <             | V             | ~             |           |          | <u> </u> | L_       | _        | L          | Ш        | <u> </u>   | 85           |    | <u> </u>   | <u> </u>     |               | Ш               |          |      | Ш        | oxdot           | _        |              | 135           | $\perp \downarrow$ |                |          |          | !        |            |          | $\sqcup$  |   |
| <u>_</u> | X.       |               |               |               |           |          | Ш        |          | <u> </u> | L          | L        | L          | 86           | _  |  | <u> </u>     |               |                 |          |      |          | $oxed{oxed}$    | _        |              | 136           | Ш                  |                |          |          |          |            |          |           |   |
| L        | (37      | V             | ۷             | <             |           |          |          |          |          | $\Box$     |          |            | 87           |    |  |              |               |                 |          |      |          | $\Box \Box$     | ╛        | L            | 137           |                    |                |          |          |          | $\Box$     |          |           | _ |
|          | 38       |               | >             | <             |           |          |          |          |          |            |          |            | 88           |    |  |              |               |                 |          |      |          |                 | 1        |              | 138           | П                  |                |          |          | $\neg$   | $\neg$     | $\neg$   | $\neg$    | _ |
|          | 39       |               | >             | >             |           |          |          |          |          | Γ          |          |            | 89           | ī  | Γ  |              |               |                 |          |      |          |                 | 1        |              | 139           | П                  |                |          |          | コ        |            | $\neg$   | ٦         |   |
|          | 40       |               | <b>V</b>      | <b>\</b>      |           |          |          |          |          |            |          |            | 90           |    |  |              |               |                 |          |      |          |                 | 7        |              | 140           | П                  | $\Box$         |          |          | 7        | $\neg$     | $\neg$   | ╛         | _ |
| ۲        | 41       | <b>~</b>      |               | <b>~</b>      | $\vdash$  |          |          | Н        | t        | Т          | $\vdash$ | _          | 9            | T  | $\vdash$   | $\vdash$     |               |                 |          | _    |          | -               | 1        | $\vdash$     | 141           | Н                  | $\dashv$       |          | $\dashv$ | _        | $\dashv$   | $\dashv$ | $\dashv$  | _ |
| -        | 42       | Н             |               | >             | $\dashv$  |          | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$   | -        | <b> </b> - | 92           | -  | $\vdash$   | $\vdash$     | $\vdash$      | Н               | $\vdash$ |      | -        | $\vdash$        | +        | $\vdash$     | 142           | Н                  | $\vdash$       | $\vdash$ | -        | $\dashv$ | $\dashv$   | $\dashv$ | $\dashv$  | _ |
| ┝        | 43       | -             | ⊢⊣            | <u> </u>      | $\dashv$  |          | -        | $\vdash$ | ├-       | $\vdash$   | Н        | -          | 93           | →— | +-   | $\vdash$     | -             | Н               | $\vdash$ |      | $\dashv$ | $\vdash$        | $\dashv$ | $\vdash$     | 143           | $\vdash$           | $\vdash$       |          | -        |          |            |          | $\dashv$  | _ |
| <u> </u> | 44       | Н             | Н             | -             | $\vdash$  |          | H        | $\vdash$ | ╁        | $\vdash$   | -        | . ⊢        | 9.           | _  | $\vdash$   | $\vdash$     | $\vdash$      | $\vdash \vdash$ | -        |      |          |                 | -        | $\vdash$     | -             | $\vdash$           | <del>   </del> | $\dashv$ | -        |          |            | -        | -         |   |
| $\vdash$ | 44       | -             | Ш             | -             |           | _        | <b> </b> | <u> </u> | ⊢        | -          | $\vdash$ | -          |              |    | ├  | <del> </del> | <u> </u>      | Щ               |          |      | $\dashv$ | $\vdash$        | 4        | $\vdash$     | 144           | ╃╼┥                | $\Box$         | 4        | _        | _        | _          |          | _         |   |
| -        |          | Н             | Ш             | $\vdash$      | $\sqcup$  |          | -        | $\vdash$ | <u> </u> | $\vdash$   | $\vdash$ | -          | 95           |    | <del> </del>                                     |              | Н             | $\sqcup$        | _        | _    | 4        | $\perp$         | 4        | <u> </u>     | 145           | $\vdash$           | $\sqcup$       | _        | _        |          |            | _        | 4         | _ |
| $\vdash$ | 46       | $\sqcup$      | Щ             |               | Ŀ         |          | -        | <u> </u> | <u> </u> | <u> </u> _ | <u> </u> | ⊢⊢         | 96           | _  | -  | <u> </u>     | L_            | Ш               |          |      | _        | $oxed{oxed}$    | 4        | _            | 146           | $\sqcup$           | ļ              | _        | _        | _        | _          |          | _         | _ |
| _        | 47       | Ш             |               |               |           |          | Ш        |          | $\vdash$ | L          | Ш        | L          | 97           |    | <u> </u>   | <u> </u>     | Ш             | Ш               |          |      |          | $\perp$         | 4        | L            | 147           | Ш                  |                |          |          |          | $_{\perp}$ |          | $\Box$    | · |
| L        | 48       | Ш             |               |               |           |          | Ш        | <u> </u> |          | L          |          | L          | 98           |    |  | Ш            | Ш             |                 |          |      |          | $\perp$         | _        |              | 148           | Ш                  |                |          |          | [        |            | [        | $\Box$    |   |
| L        | 49       | Ш             |               | ]             |           |          |          | L_       | L        | L          |          | L          | 99           |    | _  |              | Ш             |                 | $\perp$  |      | ]        |                 | ╛        | $\Box$       | 149           | $\sqcup$           |                |          | _[       |          |            |          | $\Box$    |   |
| L        | 50       |               |               | _]            | I         |          | Ш        | _        |          |            |          |            | 10           |    |  |              |               |                 | [        |      |          |                 | ╛        |              | 150           |                    |                |          |          |          | $\Box$     | $\Box$   |           |   |

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